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Epiphytic Angiosperms of Cuba

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Abstract. A survey of epiphytic angiosperms in Cuba provides an overview of the composition and distribution of these plants based on literature, herbarium specimens, field observations, and personal communication with specialists. Information gathered included endemism, geographic distribution in Cuba, distribution in major vegetation types, and types of epiphyte growth habits. A total of 319 species of epiphytic angiosperms were recorded, representing 14 families. The Orchidaceae was the most species-rich epiphyte family, with 214 species, followed by Bromeliaceae and Piperaceae. Orchidaceae also had the highest percentage of epiphytic species, followed by Piperaceae. All of the major epiphyte growth habits are found among the Cuban epiphytes.

Keywords: epiphytes, diversity, angiosperms, endemism, Cuba

Introduction

A diverse tropical flora is characteristic of the neotropics, and epiphytes contribute significantly to that diversity (Gentry & Dodson 1987). Kress (1986) estimated that 10% of worldwide vascular plant species are epiphytes. Although the role of angiosperms in epiphytism is well known, as they constitute ca. 90% of epiphyte species, no work on this subject has been conducted in Cuba. The inventory of Cuban epiphytic angiosperms presented here provides an overview of their composition and distribution on the Cuban archipelago.

Materials and Methods

The selection of Cuban epiphytic angiosperm genera was based on the list of epiphytic taxa published by Kress (1986) and on the list of orchid epiphytic genera published by Atwood (1986).

Taxonomic literature, herbarium specimens, and field observations were used to revise species registered on the study list. As part of the revision, the authors analyzed such aspects as nomenclature, distribution in Cuba, endemism, and epiphytic growth habits.

Distribution of species in Cuba follows the 1975 Cuban Political-Administrative Division. Ecological distribution of the principal epiphyte genera follows the classification of Cuban vegetation units by Capote and Berazaín (1984).

Results and Discussion

Species Richness

According to Kress (1986), a total of 20,859 epiphytic angiosperms have been identified worldwide. Cuba has 319 known epiphytic species, or 1.5% of the world total, and 96 endemic epiphyte species (Appendix). Of the 6025 Cuban angiosperms (Vales et al. 1998), epiphytes constitute 5.3% of all Cuban angiosperms distributed in 14 families and 82 genera. The major epiphytic angiosperm families in Cuba are Orchidaceae with ca. 67% of total epiphyte angiosperm species, Bromeliaceae with ca. 16%, and Piperaceae (*Peperomia*) with ca. 5%.

Orchidaceae has the greatest number of epiphytic members, with 214 species and 55 genera (Table 1). An analysis of total species per family, however, reveals that Bromeliaceae could be considered the epiphytic family par excellence, with 83.6% of its species epiphytic, followed by Marcgraviaceae with 75% and Orchidaceae with 71.1%. Rubiaceae, the largest family of angiosperms in Cuba, has only 1.3% of its species epiphytic, and the Bignoniaceae and Urticaceae show similar percentages.

Endemism

The 88 endemic epiphytic angiosperms in Cuba represent ca. 3% of all endemic Cuban angiosperms and total 3409 (Vales et al. 1998). Orchidaceae has the largest number of endemic epiphytic angiosperm species (*Pleurothallis, Lepanthes,* and *Encyclia*), among which most endemic epiphytic species are found (Table 2). *Pinguicula* (Lentibulariaceae) has 35 species worldwide, of which only three are epiphytic (Kress 1986). One of them, *Pinguicula lignicola* Barnh., is endemic to eastern Cuba. This percentage is significant because epiphytes, excepting some genera of Orchidaceae, do not show high values of endemism (Ibisch et al. 1996).

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TABLE 1. Vascular plant families in Cuba containing epiphytic species, with total numbers of genera and species in the country, total number of epiphytic genera and species, and percent epiphytism per family.

Family	Genera		Species		
	Total	No. epiphytes	Total	No. epiphytes	% Epiphytes
Orchidaceae	88	55	301	214	71.1
Bromeliaceae	12	9	61	51	83.6
Piperaceae	4	1	80	16	20.0
Araceae	5	2	25	9	36.0
Cactaceae	19	4	51	7	13.7
Rubiaceae	75	3	389	5	1.3
Moraceae	10	1	33	4	12.1
Marcgraviaceae	1	1	4	3	75.0
Begoniaceae	1	1	14	2	14.3
Clusiaceae	5	1	19	2	10.5
Gesneriaceae	7	1	50	2	4.0
Urticaceae	9	1	78	2	2.6
Bignoniaceae	18	1	87	1	1.1
Lentibulariaceae	3	1	27	1	3.7
Total	257	82	1219	319	26.2

Epiphytic Growth Habits

The main types of epiphytic growth habits in Cuban epiphytic families are presented in TABLE 3. Orchidaceae display all variations of epiphytism except hemiepiphytism. Holoepiphytism and casual epiphytism are the most common types of epiphytism among the Orchidaceae. Bromeliaceae display a similar pattern, though with the addition of semiepiphytism.

Epiphytism in the Rubiaceae is unusual (TABLE 1), but in this plant family (the third largest in Cuba, Vales et al. 1998), three of the four epiphytic growth habits are found (APPENDIX). Primary hemiepiphytism is common in *Ficus* (Moraceae) and *Clusia* (Clusiaceae). Secondary hemiepiphytism is found mainly in the Cactaceae (*Selenicereus* and *Hylocereus*). Semiepiphytic climbers are common mainly in the Araceae and Marcgraviaceae.

Little is known about the epiphytic growth habits of *Pilea* (Urticaceae) in the Cuban archipelago, despite its high number of endemic species. The problem with *Pilea* and species of *Gesneria, Rhytidophyllum* (Gesneriaceae), and *Peperomia* (Piperaceae) is that they are commonly found as saxicoles. Species in these genera develop roots that grow where soil reserves are abundant, frequently in rock holes where organic material has accumulated. Occasionally they colonize humus-filled cavities of trees, thus displaying an epiphytic habit (Putz & Holbrook 1986).

Distribution in Broad Vegetation Categories

A summary of the main genera of epiphytes and the broad vegetation type in which they can be found is presented in TABLE 4. *Tillandsia* (Bromeliaceae) species are found from sea level to the highest point in Cuba, as are species of *Encyclia* (Orchidaceae).

Epiphytic species of Bromeliaceae, Orchidaceae, Moraceae, and Clusiaceae are found in most Cuban vegetation types and at all eleva-

TABLE 2. Ten largest genera of epiphytic angiosperms in Cuba, with number of endemic species.

Genus	Family	No. epiphyte species in Cuba	No. epiphyte species endemic to Cuba
Pleurothallis	Orchidaceae	36	18
Tillandsia	Bromeliaceae	27	2
Lepanthes	Orchidaceae	25	23
Epidendrum	Orchidaceae	20	3
Peperomia	Piperaceae	16	2
Encyclia	Orchidaceae	15	8
Tolumnia	Orchidaceae	12	4
Vanilla	Orchidaceae	9	0
Maxillaria	Orchidaceae	7	0
Prosthechea	Orchidaceae	7	1

TABLE 3. Epiphyte growth habits of families displaying epiphytism in Cuba.

Family	Holo-epiphyte	Hemiepiphyte		Casual epiphyte	Semiepiphyte (climbers)
		1°	2°		
Araceae	x	x			x
Begoniaceae					x
Bignoniaceae					x
Bromeliaceae	x			x	
Cactaceae	x		x	x	
Clusiaceae		x			
Gesneriaceae	x				x
Lentibulariaceae	x				
Marcgraviaceae					x
Moraceae					
Orchidaceae	x	x		x	x
Piperaceae				x	
Rubiaceae	x			x	
Urticaceae	x			x	x

tions. Rubiaceae (*Hillia, Schradera,* and *Psychotria*), Gesneriaceae (*Columnea*), Bignoniaceae (*Schlegelia*), Urticaceae (*Pilea*), and Lentibulariaceae (*Pinguicula*) share the same distribution pattern. Epiphytes of these families are confined to the higher elevations of eastern Cuba, and their non-epiphytic members are found widespread throughout Cuba.

The greatest diversity and degree of endemism of the epiphytic angiosperms in Cuba can be found above 600 m elevation, associated with the main types of forest in eastern Cuba (wet forest, rain forest, and montane shrubland). Species of Orchidaceae contribute most to this diversity.

CONCLUSION

The 319 epiphytic angiosperms in Cuba are distributed in 14 families and 82 genera, primarily in the Orchidaceae, Bromeliaceae, Piperaceae (*Peperomia*), Cactaceae, and Araceae. These five families contribute heavily to the diversity of Cuban epiphytic angiosperms, which make up 5% of all Cuban angiosperms. This diversity is manifested in taxonomic representation, variety of epiphytic growth habits, and variety of vegetation types colonized by epiphytes. The highest epiphyte species richness and endemism of Cuban epiphytic angiosperms are found in eastern Cuba, following the same pattern as terrestrial species.

Although epiphytes are not recognized as a group with a high degree of endemism, in Cuba they represent 3% of all endemic angiosperms. The genera richest in epiphytic species are *Pleurothallis, Lepanthes,* and *Encyclia* (all Orchidaceae).

The Bromeliaceae may be considered the best representation of an epiphyte family in Cuba, with the highest percentage of species being epiphytes and occurring broadly throughout elevation and geographical ranges of the archipelago.

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TABLE 4. Distribution by major vegetation type of principal epiphytic angiosperm genera in Cuba.

Vegetation type	Elevation (m above sea level)	Epiphyte genera
Mangroves and their variants	0–30	*Catopsis* & *Tillandsia* (Bromeliaceae), *Selenicereus* (Cactaceae); *Broughtonia, Encyclia* & *Tolumnia* (Orchidaceae)
Sandy beaches and coastal rock pavement vegetation	0–10	*Tillandsia* (Bromeliaceae); *Selenicereus* (Cactaceae); *Vanilla* (Orchidaceae)
Semideciduous forests, evergreen forests, and their variants	0–600	*Anthurium* & *Philodendron* (Araceae); *Catopsis, Guzmania, Hohenbergia* & *Tillandsia* (Bromeliaceae); *Selenicereus* & *Rhipsalis* (Cactaceae); *Clusia* (Clusiaceae); *Ficus* (Moraceae); *Cyrtopodium, Encyclia, Epidendrum, Ionopsis, Oncidium, Polystachya, Tolumnia* & *Vanilla* (Orchidaceae); *Peperomia* (Piperaceae)
Coniferous forests	0–600	*Tillandsia* & *Catopsis* (Bromeliaceae); *Tolumnia* & *Vanilla* (Orchidaceae)
Savannas at sea level	0–600	*Anthurium* (Araceae); *Tillandsia* (Bromeliaceae); *Clusia* (Clusiaceae); *Ficus* (Moraceae); *Encyclia* (Orchidaceae)
"Mogote" vegetation and their variants	0–900	*Anthurium* (Araceae); *Hohenbergia, Racinaea, Tillandsia* & *Vriesea,* (Bromeliaceae); *Selenicereus* (Cactaceae); *Coelia, Domingoa, Encyclia, Epidendrum* & *Pleurothallis* (Orchidaceae); *Peperomia* (Piperaceae)
Dry thorny and semi-thorny serpentine shrublands	0–600	*Catopsis* & *Tillandsia* (Bromeliaceae); *Broughtonia, Encyclia, Epidendrum* & *Vanilla* (Orchidaceae)
Montane rain forest, cloud forests, wet montane forests, and montane shrublands	500–1974	*Anthurium* & *Philodendron* (Araceae); *Begonia* (Begoniaceae); *Schlegelia* (Bignoniaceae); *Aechmea, Catopsis, Tillandsia* & *Vriesea* (Bromeliaceae); *Clusia* (Clusiaceae); *Columnea* (Gesneriaceae); *Pinguicula* (Lentibulariaceae); *Marcgravia* (Marcgraviaceae); *Campylocentrum, Dichaea, Dilomilis, Encyclia, Epidendrum, Lepanthes, Lepanthopsis, Maxillaria* & *Pleurothallis,* (Orchidaceae); *Peperomia* (Piperaceae); *Ficus* (Moraceae); *Hillia, Psychotria* & *Schradera* (Rubiaceae); *Pilea* (Urticaceae)

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APPENDIX. Checklist of epiphytic angiosperms of Cuba, with distribution within Cuba, epiphyte growth habit, and voucher source.

Taxon (Species and infraspecies in bold are endemic to Cuba.)	Distribution within Cuba	Epiphyte growth habit (ca = casual epiphyte; ho = holoepiphyte; se = semiepiphyte; he = hemiepiphyte)	Voucher specimens/literature reference (Herbarium acronyms follow *Index Herbariorum,* New York Botanical Garden.)
ARACEAE			
Anthurium Schott: 4 spp., 2 endemic			
cubense Engl.	Eastern	ca	*León 4233* (LS); *Acuña 18351* (SV); *Alain et al. 7394* (LS); *Clemente 6311* (LS).
gymnopus Griseb.	Western, Central & Eastern	ho	*Acuña 14314* (SV); *Acuña & Pujols 49111* (SV); *León 18919* (LS); *León & A. Loustalot 11348* (LS).
scandens (Aubl.) Engl.	Eastern	se (climber)	*Alain et al. 7431* (LS); *Clemente & Crisógono 6474* (LS); *Casas 17431* (SV); *L. Figueiras 2968* (LS).
thompsonii I. Arias	Eastern	ca	*L. Figueiras 463* (LS).
Philodendron Schott: 5 spp., 0 endemic			
consanguineum Schott	Western, Central & Eastern	se (climber)	*Acuña & Roig 14685* (SV); *Alain 6269* (LS); *Luna 578* (LS); *Casas 6408* (LS).
fragantissimum Kunth	Western	1° he	*Acuña 13976* (SV).
hederaceum (Jack.) Schott	Western, Central & Eastern	se (climber)	*HAC 13829*
lacerum (Jack.) Schott	Western, Central & Eastern	se (climber)	*Acuña 23531* (SV); *Alain 6153* (LS); *Fernando 147* LS); *Groudzinskaya & Imhanitzkaya 32315* (HAC); *Hioram 2241* (LS).
scandens K. Koch & Sello [subsp. *cubense* (Engl.) I Arias]	Western, Central & Eastern	se (climber)	*Alain 6154* (LS); *Groudzinskaya & Imhanitzkaya 32363* (HAC); *Cañizares 23529* (HAC)
BEGONIACEAE			
Begonia L.: 2 spp., 1 endemic			
banaoensis J. Sierra	Central	ca	*León & Gustavo 4014* (LS); *E. del Risco & A. López 27330* (SV); *León & Roca 7999* (LS); *León & Jack 13952* (LS); *Yero 25924* (SV).
glabra Aubl. [var. *glabra*]	Western, Central & Eastern	ca	*Alain 767* (LS); *Alain 2702* (LS); *Cañizares 11145* (SV).
BIGNONIACEAE			
Schlegelia Miq.: 1 sp., 0 endemic			
brachyantha Griseb.	Eastern	se (climber)	*Wright 434* (NY) [from New York Bot. Gard. database].
BROMELIACEAE			
Aechmea Ruiz & Pav.: 1 sp., endemic			
nudicaulis (L.) Griseb.	Western, Central & Eastern	ca	*León 6189* (LS); *Acuña 15054* (SV); *León & Victorin 17338* (LS); *Acuña & Correl 18698* (SV); *R. Oviedo et al. 30481* (HAC).
Catopsis Griseb.: 6 spp., 0 endemic			
berteroniana (Schult.) Mez	Western, Central & Eastern	ho	*Acuña 11130* (SV); *Van Hermann 3323* (LS); *Vales et al. 35523* (HAC); *León & Fortuny 8584* (LS).
floribunda L.B. Sm.	Western, Central & Eastern	ho	*Buck et al. 5622* (HAC); *Alain 6213* (LS); *León et al. 9988* (LS); *León 18292* (LS).

APPENDIX. Continued.

Taxon (Species and infraspecies in bold are endemic to Cuba.)	Distribution within Cuba	Epiphyte growth habit (ca = casual epiphyte; ho = holoepiphyte; se = semiepiphyte; he = hemiepiphyte)	Voucher specimens/literature reference (Herbarium acronyms follow *Index Herbariorum*, New York Botanical Garden.)
montana L.B. Sm.	Western	ho	*Ekman 16555* (GH, S).
nitida (Hook.) Griseb.	Central & Eastern	ho	*León & Clemente 15658* (LS); *Acuña 15055, 11129* (SV).
nutans (Sw.) Griseb. [var. *nutans*]	Central & Eastern	ho	*Acuña & Alain 15658* (SV); *Acuña 11074, 11138* (SV); *Gómez 26597* (SV).
sessiliflora (Ruiz & Pav.) Mez	Eastern	ho	*Clemente et al. 6708* (LS).
Guzmania Ruiz & Pav.: 3 spp., 0 endemic			
erythrolepis Brongn. ex Planch.	Eastern	ho	*Alain & L. Figueiras 7181* (LS); *L. Figueiras 2429* (UO); *Van Hermann 3258* (SV); *Alain et al. s.n.* (SV); *León et al. 10578* (LS).
lingulata (L.) Mez [var. *lingulata* & var. *splendens* (Planch.) Mez]	Western, Central & Eastern	ho	*León & Clemente 5381* (LS); *León 3932* (LS); *Alain et al. 5716* (LS); *Acuña & Alain 18650* (SV); *Acuña 15060* (SV).
monostachia (L.) Rusby ex Mez [var. *monostachia* & var. *variegata* Hort. ex Nash]	Western, Central & Eastern	ca (rare)	*Acuña 11126* (SV); *Acuña & Alain 18539* (SV); *Crisógono 7368* (SC); *León et al. 9974* (LS).
Hohenbergia Bak.: 1 sp., 0 endemic			
penduliflora (A. Rich.) Mez	Western, Central & Eastern	ca	*Wilson 1134* (SV); *Van Hermann 3517* (SV); *Hioram & Maurel 2567* (SC); *Acuña & Correll 18699* (SV); *Catasús 40911* (HAC).
Mezobromelia L.B. Sm.: 1 sp., 0 endemic			
capituligera (Griseb.) J.R. Grant	Eastern	ho	*Hioram 5042* (LS); *Alain et al. 5510, 7464* (LS); *Acuña 15061* (SV); *León et al. 10282* (LS).
Racinaea M.A. Spencer: 3 spp., 0 endemic			
jenmanii (Baker) Spencer & L.B. Sm.	Eastern	ho	*Acuña & Zayas 19622* (SV); *Varonov & Alonso 26476* (SV).
spiculosa (Griseb) Spencer & L.B. Sm.	Eastern	ho	*Acuña 14058* (SV); *Alain et al. 5481* (LS); *León 11064* (LS); *León et al. 10159* (LS).
tetrantha [var. *caribaea* (Ruiz & Pav.) Spencer & L.B. Sm.]	Eastern	ho	*León 10857* (LS); *Acuña 26476* (SV).
Tillandsia L.: 27 spp., 2 endemic			
argentea Griseb.	Eastern	ho	*León 18971* (LS); *P. Herrera &O. Cano 34465* (HAC); *Carabia 17099* (LS); *L. Figueiras 2289; Acuña 9502* (SV).
balbisiana Schult. f.	Western, Central & Eastern	ho	*León 8759* (LS); *R. Oviedo 33078* (HAC); *Abarca 4560* (SV); *Roig et al. 13940* (SV); *Roig & Ferns 22928* (SV).
bulbosa Hook.	Western, Central & Eastern	ho	*León & Roca 8076* (LS); *León & Cazañas 5961* (LS); *Martínez 36131* (HAJB); *Acuña 22930* (SV); *Alonso 16013* (SV).

APPENDIX. Continued.

Taxon (Species and infraspecies in bold are endemic to Cuba.)	Distribution within Cuba	Epiphyte growth habit (ca = casual epiphyte; ho = holoepiphyte; se = semiepiphyte; he = hemiepiphyte)	Voucher specimens/literature reference (Herbarium acronyms follow *Index Herbariorum,* New York Botanical Garden.)
canescens Sw.	Western	ca	*Acuña 10730* (SV); *Alain & Acuña 3011* (LS); *Alain 578* (LS); *Acuña & Alain 18534* (SV).
capitata Griseb.	Western & Central	ca	*K. Takeuchi 20639* (SV).
compacta Griseb. [var. *compacta*]	Eastern	ho	*Acuña 15064* (SV); *León 11069* (LS); No Collector *27139* (SV).
complanata Benth.	Eastern	ho	*Acuña 15062* (SV).
deppeana Steud.	Central	ho	*Acuña 11124* (SV); *Alain 6725* (LS).
excelsa Griseb.	Eastern	ho	*Acuña et al. 21099* (SV); *Acuña 15067* (SV); *L. Figueiras 2430* (UO); *Hioram & Maurel s.n.* (SC).
fasciculata Sw. [var. *fasciculata,* var. *clavispica* Mez, var. *laxispica* Mez, var. *uncispica* Mez & var. *venosispica* Mez]	Western, Central & Eastern	ho	*Hioram 16644* (LS); *Carabia 55, 157* (LS); *L. Figueiras 1704* (LS).
fendleri Griseb.	Western & Central	ca	*Acuña 9996* (SV); *Areas 25890* (SV); *León et al. 10135* (LS); *León et al. 20039* (LS).
festucoides Brongn.	Western, Central & Eastern	ho	*Killip 43869* LS); *Alain et al. 5757* (LS); *León & Alain 19351* (LS); *L. Figueiras 1848* (LS); *Hioram 4137* (LS).
flexuosa Sw.	Western, Central & Eastern	ho	*Alain 1661* (LS); *Jack 6636* (LS); *Killip 44016* (LS); *León & Roca 8138* (LS); *Ávilla & Enríquez 39959* (HAC).
hotteana Urban	Eastern	ho	*Alain et al. 5704* (LS); *Acuña 15066* (SV); *León 11061* (LS).
juncea (Ruiz & Pav.) Poiret	Central & Eastern	ca	*Clemente & Crisógono 6421* (LS); *L. Figueiras 806* (UO); *León 18429* (LS).
paucifolia Baker	Western, Central & Eastern	ho	*Van Hermann 917* (SV); *Acuña 10680* (SV); *Killip 44015* (LS); *Carabia 18972* (LS); *León 18126* (LS).
polystachia (L.) L.	Western, Central & Eastern	ho	*Acuña 10966, 11120, 19590* (SV); *Jack 6385* (LS); *Alonso 16012* (SV); *Acuña & Roig 16787* (SV).
praschekii Ehlers & Willinger	Western	ca	*Acuña & Correll 22934* (SV); *Roig & Zúñiga 8020* (SV); *Alain 1300* (LS).
pruinosa Sw.	Western, Central & Eastern	ho	*Areces et al. 28130* (HAC); *Clemente 4881* (LS); *Alain et al. 5864* (LS); *Clemente 181* (LS).
recurvata (L.) L.	Western, Central & Eastern	ca	*Clemente & Crisógono 7100* (SC); *Van Hermann 2198* (SV); *Acuña 9503, 22938* (SV); *Chiappy & González 36680, 36393* (HAC).
schiedeana Steud.	Western, Central & Eastern	ho	*Hioram 5152* (LS); *Clemente 2466* (LS); *Acuña 10958* (SV); *Acuña & Roig 22939* (SV); *León & Carabia 17097* (LS).
setacea Sw.	Western, Central & Eastern	ho	*Van Hermann 3946* (SV); *Acuña & Roig 10848* (SV); *R. Oviedo et al. 32288* (HAC); *León & Loustalot 9468* (LS); *Jack 6873* (LS).

APPENDIX. Continued.

Taxon (Species and infraspecies in bold are endemic to Cuba.)	Distribution within Cuba	Epiphyte growth habit (ca = casual epiphyte; ho = holoepiphyte; se = semiepiphyte; he = hemiepiphyte)	Voucher specimens/literature reference (Herbarium acronyms follow *Index Herbariorum,* New York Botanical Garden.)
tenuifolia L.	Central & Eastern	ho	*Yero & Acuña 917* (SV); *Alain et al. 7429* (LS); *Clemente 205* (LS); *León 18442* (LS); *Crisógono 5147* (LS).
turquinensis Willinger & Michálek	Eastern	ho	*Acuña 27145* (SV); *Garcia et al. 33077, 33100* (HAC); *L. Figueiras 899* (LS).
usneoides L.	Western, Central & Eastern	ho	*Wilson 1059* (SV); *León 3163, 7349* (LS); *Acuña & Roig 22, 944* (SV); *Pérz et al. 40739* (HAC).
utriculata L. [var. *utriculata*]	Western, Central & Eastern	ho	*Acuña 11123* (SV); *Misión rusa s.n.* (SV); *Van Hermann 5114* (SV); *P. Herrera & O. Cano 33722* (HAC); *Alain 6545* (LS).
variabilis Schlecht.	Western, Central & Eastern	ho	*Acuña & Morton 20089* (SV); *Acuña 22945* (SV); *León 3933* (LS).
Vriesea Lindl.: 5 spp., 1 endemic			
didistichoides (Mez) L.B. Sm.	Eastern	ca	*Alain et al. 5388, 7468* (LS); *Acuña & Zayas 19623* (SV); *Acuña 15068* (SV).
dissitiflora (Wr.) Mez	Western	ca	*Alain & Acuña 3017* (LS), *18535* (SV).
incurva (Griseb.) R.W. Read	Eastern	ca	*Acuña 15063* (SV); *Veroslav 25983* (SV).
machrostachya (Bello) Mez	Eastern	ca	See Taxonomic Literature Consulted.
platynema Gaudich [var. *platynema* & var. ***wrightii*** (L.B. Sm.) L.B. Sm.]	Eastern	ca	*León et al. 9972* (LS); *Acuña et al. 21100* (SV); *León & Alain 19349* (LS).
Werauhia J.R. Grant: 4 spp., 1 endemic			
haplostachya (C. Wright) J.R. Grant	Eastern	ca	*Alain 3663* (LS); *Gómez 26600* (SV).
ringens (Griseb) J.R. Grant	Cenral & Eastern	ca	*Alain et al. 7469* (LS); *León & Alain 19348* (LS); *León 6593* (LS); *L. Figueiras 2221* (UO); *Acuña 13021* (SV).
sanguinolenta (Linden ex Cogn. & Marshall) J.R. Grant	Eastern	ca	See Taxonomic Literature Consulted.
sintenisii (Baker) J.R. Grant	Eastern	ca	*León et al. 10577* (LS); *Acuña 10638, 15059; Alain et al. 7463* (LS).
CACTACEAE			
Epiphyllum Haworth: 1 sp., 0 endemic			
phyllanthus (L.) Haw.	Eastern	ho	*León 22895* (LS); *Barrios 8497* (SV); *Alain 1658; Clemente & Crisógono 6177* (LS).
Hylocereus Britt. & Rose: 1 sp., 0 endemic			
undatus (Haw.) Britt. & Rose	Western & Eastern	2° he	*León 14555* (LS); *Alain 21040* (LS); *Acuña 13905, 20015* (SV); *Calvino 8292* (SV).
Rhipsalis Gaertner: 1 sp., 0 endemic			
baccifera (Mill.) Stearn [subsp. *baccifera*]	Western, Central & Eastern	ho	*Roig 8304* (SV); *27588* (SV); *León 2527* (LS); *Fortún 6933* (SV); *Acuña 23918* (SV).
Selenicereus Britt. & Rose: 4 spp., 1 endemic			
boeckmannii (Otto) Britt. & Rose	Western, Central & Eastern	2° he	*Maxon 4508* (LS); *Crisógono 3678* (SC); *León 2909* (LS); *E. del Risco 36107* (HAC); *León 18014* (LS).

APPENDIX. Continued.

Taxon (Species and infraspecies in bold are endemic to Cuba.)	Distribution within Cuba	Epiphyte growth habit (ca = casual epiphyte; ho = holoepiphyte; se = semiepiphyte; he = hemiepiphyte)	Voucher specimens/literature reference (Herbarium acronyms follow *Index Herbariorum,* New York Botanical Garden.)
brevispinus Britt. & Rose	Central	2° he	*León 15569, 16904, 16933* (LS).
grandiflorus (L.) Britt. & Rose	Western & Central	2° he	*Matos 19017* (LS); *León 9761, 13774, 16767, 18016, 19017* (LS).
urbanianus (Gurke & Weingart.) Britt. & Rose	Western & Central	2° he	*Yero 651* (SV); *León s.n. 16635, 16739* (LS); *Acuña 25519* (SV).
CLUSIACEAE			
Clusia L.: 2 spp., 0 endemic			
minor L.	Western, Central & Eastern	1° he	*Roig & Chrysler 8584* (SV); *Fernández Casas 19748; Brohidi et al. 38981* (HAC); *León & Seifriz 18494* (LS); *Roig 6490* (SV).
rosea Jack.	Western, Central & Eastern	1° he	*Earle 1982* (SV); *Fernando 467* (LS); *Van Hermann 3944* (SV); *Clemente s.n.* (SC).
GESNERIACEAE			
Columnea L.: 2 spp., 2 endemic			
cubensis (Urb.) Britt.	Eastern	ho	*León et al. 18657* (LS); *Hioram 1567* (SC); *Alain et al. 5528* (LS); *L. Figueiras 2051* (LS).
tincta Griseb.	Eastern	se (climber)	*Hioram 4252* (LS); *Kuban-Dtsch A. v. Humboldt Expedition 1186; Alain & L. Figueiras 7210* (LS).
LENTIBULARIACEAE			
Pincuicula L.: 1 sp., 1 endemic			
lignicola Barnh.	Eastern	ho	*Shafer 4031* (NY) [from New York Bot. Gard. database].
MARCGRAVIACEAE			
Marcgravia L.: 3 spp., 1 endemic			
evenia Krug & Urb.	Eastern	se (climber)	*Clemente & Crisógono 4979* (SC); *Borhidi & Muñíz 28404* (HAC); *Alain 7709* (LS); *Alain et al. 5484* (LS).
oligandra C. Wright	Eastern	se (climber)	*I. Groudzinskaya & Imhanitzkaja 28484* (HAC); *Acuña 23925* (SV).
rectiflora Tr. & Pl.	Central & Eastern	se (climber)	*Alain 6337* (LS); *Clemente & Crisógono 4855* (LS); *Roig 6239* (SV); *L. Figueiras 585, 2432* (UO).
MORACEAE			
Ficus L.: 4 spp., 0 endemic			
americana (L.) Aubl.	Western, Central & Eastern	1° he	*P. Herrera & N. Imhanitzkaja 34802* (HAC)
aurea Nutt	Western, Central & Eastern	1° he	*León & Roca 6261* (LS); *Baker 4550* (SV); *Van Hermann 2644* (SV); *León & Victorin 20507* (LS); *Scaramuzza 22826* (SV).
citrifolia P. Mill.	Western & Eastern	1° he	*Roig & Acuña 22794* (SV); *Acuña 22795* (SV).
trigonata L.	Western & Central	1° he	*R. Oviedo & E. del Risco 33745* (HAC).

APPENDIX. Continued.

Taxon (Species and infraspecies in bold are endemic to Cuba.)	Distribution within Cuba	Epiphyte growth habit (ca = casual epiphyte; ho = holoepiphyte; se = semiepiphyte; he = hemiepiphyte)	Voucher specimens/literature reference (Herbarium acronyms follow *Index Herbariorum,* New York Botanical Garden.)
ORCHIDACEAE			
Antillanorchis Garay: 1 sp., 0 endemic			
gundlachii (C. Wright ex Griseb.) Garay & Stacy	Western	ca	See Taxonomic Literature Consulted.
Barbosella Schltr.: 1 sp., 0 endemic			
dussii (Cogn.) Dod	Eastern	ho	See Taxonomic Literature Consulted.
Brassia R. Br.: 1 sp., 0 endemic			
caudata (L.) Lindl.	Central & Eastern	ca	*Acuña 10500* (SV).
Brachionidium Lindl.: 1 sp., 0 endemic			
parvum Cogn.	Eastern	ho	*Acuña 10006* (SV); *Alain et al. 5610* (LS).
Broughtonia R. Br.: 3 spp., 2 endemic			
cubensis (Lindl.) Cogn.	Western	ho	See Taxonomic Literature Consulted.
lindenii (Lindl.) Dressler	Western, Central & Eastern	ho	*León et al. 15729* (NY) [from New York Bot. Gard. database].
ortgesiana (Rchb. f.) Dressler	Western, Central & Eastern	ho	*Acuña 17478* (SV).
Bulbophyllum Thouars: 2 spp., 0 endemic			
aristatum (Rchb. f.) Hemsl.	Western & Eastern	ho	See Taxonomic Literature Consulted.
pachyrachis (A. Rich.) Griseb.	Western, Central & Eastern	ca	*Sagra s.n.* (P).
Campylocentrum Benth.: 6 spp., 1 endemic			
fasciola (Lindl.) Cogn.	Western, Central & Eastern	ho	See Taxonomic Literature Consulted.
filiforme (Sw.) Cogn.	Western	ho	See Taxonomic Literature Consulted.
micranthum (Lindl.) Maury	Eastern	ho	See Taxonomic Literature Consulted.
pachyrrhizum (Rchb. F.) Rolfe	Western & Central	ho	See Taxonomic Literature Consulted.
poeppigii (Rchb. f.) Rolfe	Western, Central & Eastern	ho	*Alain et al. 5928* (LS).
porrectum (Rchb. f.) Rolfe	Eastern	ho	*Roig et al. 13880* SV).
Catasetum Rich. ex Kunth: 1 sp., 0 endemic			
integerrimum Hook.	Western	ho	See Taxonomic Literature Consulted.
Cochleanthes Raf.: 1 sp., 0 endemic			
flabelliformis (Sw.) R.E. Schult. & Garay	Western, Central & Eastern	ho	*León & Acuña 16163* (LS).
Coelia Lindl.: 1 sp., 0 endemic			
triptera (Smith) G. Don ex Steud	Western, Central & Eastern	ho	*Clement 628* (NY) [from New York Bot. Gard. database].
Comparettia Poepp. & Endl.: 1 sp., 0 endemic			
falcata Poepp. & Endl.	Eastern	ca	*Acuña 9770, 15069* (SV); *Morton & Acuña 12306* (SV); *Alain et al. 21356* (SV).

APPENDIX. Continued.

Taxon (Species and infraspecies in bold are endemic to Cuba.)	Distribution within Cuba	Epiphyte growth habit (ca = casual epiphyte; ho = holoepiphyte; se = semiepiphyte; he = hemiepiphyte)	Voucher specimens/literature reference (Herbarium acronyms follow *Index Herbariorum,* New York Botanical Garden.)
Cyrtopodium R. Br.: 1 sp., 0 endemic			
punctatum (L.) Lindl.	Western, Central & Eastern	ho	*Shafer 310* (NY) [from New York Bot. Gard. database].
Dendrophylax Rchb. f.: 3 spp., 1 endemic			
gracilis (Cogn.) Garay	Western, Central & Eastern	ho	See Taxonomic Literature Consulted.
lindenii Hort. ex Ames & Nash	Western, Central & Eastern	ho	*Taylor 259* (NY) [from New York Bot. Gard. database].
varius Urb.	Central & Eastern	ho	*Acuña 13489, 20030* (SV).
Dichaea Lindl.: 7 spp., 0 endemic			
glauca (Sw.) Lindl.	Eastern	ho	*Acuña & K. Takeuchi 21237* (SV); *Morton & Acuña 12308* (SV); *Acuña 9769* (SV).
brasminioides (Sw.) Lindl.	Eastern	ca	*Acuña 15070* (SV); *Roig et al. 9515* (SV).
hystricina Rchb. f.	Eastern	ho	*Morton & Acuña 12307* (SV); *Acuña 13038* (SV); *Acuña & Zayas 19625* (SV); *Alain et al. 5556* (LS); *Alain et al. 20260* (SV).
morrisii Fawc. & Rendle	Eastern	ho	*Hioram & Maurel 4906* (NY) [from New York Bot. Gard. database].
muricata (Sw.) Lindl.	Eastern	ho	*Acuña 9768, 13895* (SV).
pendula Cogn.	Eastern	ho	*Roig & Acuña 9513* (SV).
trichocarpa (Sw.) Lindl.	Eastern	ca	*Acuña 9516, 22964 (SV).*
Dilomilis Raf.: 4 spp., 2 endemic			
bissei H.A. Dietr.	Eastern	ca	*Shafer 4007* (NY) [from New York Bot. Gard. database].
elata (Benth. & Hook.) Summerh.	Eastern	ca	*Alain et al. 5706* (LS); *E. del Risco et al. 27439* (SV).
montana (Sw.) Summerh.	Eastern	ca	*Roig et al. 9532* (SV); *Acuña 15078* (SV).
oligophylla (Schltr.) Summerh.	Eastern	ca	*Alain et al. 5707* (LS); *Acuña 13047* (SV).
Dinema Lindl.: 1 sp., 1 endemic			
cubincola (Borhidi) A. Dietr.	Eastern	ho	*Acuña et al. 21104* (SV); *Alain et al. 5656* (LS); *Roig et al. 9530* (SV); *Acuña 9784* (SV).
Domingoa Schltr.: 1 sp., 0 endemic			
haematochila (Rchb. f.) Carabia	Western	ho	*Alain & Clemente 1005* (LS); *Alain 2896, 4338* (LS); *León 5135* (LS); *Paterson 10537* (SV).
Elleanthus Presl.: 2 spp., 0 endemic			
cephallotus Garay & Sweet	Eastern	ca	*Roig et al. 9517* (SV).
cordidactylus Ackerman	Eastern	ca	*Acuña 9999, 15071, 22965* (SV); *Borhidi et al. 28322* (HAC).

APPENDIX. Continued.

Taxon (Species and infraspecies in bold are endemic to Cuba.)	Distribution within Cuba	Epiphyte growth habit (ca = casual epiphyte; ho = holoepiphyte; se = semiepiphyte; he = hemiepiphyte)	Voucher specimens/literature reference (Herbarium acronyms follow *Index Herbariorum,* New York Botanical Garden.)
Encyclia Hook.: 15 spp., 8 endemic			
acutifolia **Schltr.**	Eastern	ho	See Taxonomic Literature Consulted.
bipapularis **(Rchb. f.) Acuña**	Western	ho	*Wright 3328.*
brevifolia **(Jennings) M.A. Díaz & Ackerman**	Western	ho	*Acuña 17602, 17603, 17604, 17605* (SV).
fucata (Lindl.) Britt. & Millsp	Western, Central & Eastern	ho	*Acuña 15626, 20444, 22969, 25395* (SV).
gravida (Lindl.) Schltr.	Eastern	ho	*Acuña 9772* (SV).
hodgeana (Hawkes) Beckner	Eastern	ho	See Taxonomic Literature Consulted.
howardii **(Ames & Correll) A. Dietr.**	Eastern	ho	*Acuña &Zayas 19629* (SV).
isochila (Rchb. f.) Dod	Eastern	ho	See Taxonomic Literature Consulted.
moebusii **H.A. Dietr.**	Eastern	ca	*Dietrich s.n.* (JE).
nematocaulon (A. Rich.) Acuña	Eastern	ho	*Sagra s.n.* (P).
oxypetala **Schltr.**	Western & Eastern	ho	See Taxonomic Literature Consulted.
phoenicia **(Lindl.) Schltr.**	Western, Central & Eastern	ca	*Acuña 22680* (SV); *Acuña & Zayaz 19854, 19855* (SV); *Yero 1151* (SV); *Morton & Acuña 12315* (SV).
plicata (Lindl.) Britt. & Millsp	Western, Central & Eastern	ho	*Acuña & Zayas 19856* (SV); *Acuña 13041, 15625* (SV); *Acuña & Alain 15798* (SV); *Acuña & Torres 16868* (SV).
rufa (Lindl.) Britt. & Millsp.		ho	*Hioram 2103* (NY); [from New York Bot. Gard. database].
triangulifera **(Rchb. f.) Acuña**	Eastern	ho	*Acuña 20290* (SV); *Alain et al. 16171* (SV); *Alain & Acuña 14050* (LS).
Epidendrum L.: 20 spp., 3 endemic			
acunae Dressler	Central & Eastern	ho	*Acuña & Correll 18647* (SV); *León & Acuña 16164* (LS); *Acuña 12906* (SV).
anceps Jacq.	Western, Central & Eastern	ca	See Taxonomic Literature Consulted.
antillanum Ackerman & Hágsater	Eastern	ho	See Taxonomic Literature Consulted.
difforme Jacq.	Central & Eastern	ho	*Acuña 9793, 9930, 13481* (SV); *Roig et al. 13891* (SV); *Acuña & K. Takeuchi 21254* (SV).
diffusum Sw.	Central & Eastern	ho	*Acuña 13889, 20018* (SV).
floridense Hágsater	Western, Central & Eastern	ho	See Taxonomic Literature Consulted.
hiorami **Acuña & Alain**	Eastern	ho	*Alain et al. 5358* (LS); *Alain & Acuña 7955, 8349* (LS); *Acuña & Zayas 19628* (SV); *Acuña 13042* (SV).
jaimacense Lindl.	Eastern	ca	See Taxonomic Literature Consulted.
latifolium (Lindl.) Garay & Sweet	Eastern	ca	*Roig et al. 9509* (SV); *Acuña 13044, 16369* (SV).
nocturnum Jacq.	Western, Central & Eastern	ho	*Acuña 13482* (SV); *Yero s.n.* (SV).
neoporpax Ames	Eastern	ho	*Acuña 10000* (SV).
orientale **Hágsater & M.A. Díaz**	Eastern	ho	See Taxonomic Literature Consulted.

APPENDIX. Continued.

Taxon (Species and infraspecies in bold are endemic to Cuba.)	Distribution within Cuba	Epiphyte growth habit (ca = casual epiphyte; ho = holoepiphyte; se = semiepiphyte; he = hemiepiphyte)	Voucher specimens/literature reference (Herbarium acronyms follow *Index Herbariorum,* New York Botanical Garden.)
ramosum Jacq.	Central & Eastern	ho	*Acuña 9766, 20010* (SV); *Roig et al. 9545* (SV); *Alain et al. 5524, 7434* (LS).
repens Cogn.	Eastern	ho	*Acuña 22973* (SV); *Morton & Acuña 12312* (SV); *Roig & Acuña 9546* (SV).
rigidum Jacq.	Eastern	ho	*Alain et al. 5823* (LS); *Acuña 13483* (SV).
rivulare Lindl.	Eastern	ho	*Acuña 9799, 13034, 13893, 22970* (SV); *Roig & Acuña 9510* (SV).
secundum Jacq.	Eastern	ho	*Yero 1148, 1157* (SV); *Alain et al. 7433* (LS); *Acuña 22967* (SV).
strobiliferum Rchb. f.	Eastern	ca	*Alain et al. 5929* (LS).
umbellatum Buch.-Ham. ex Lindl.	Eastern	ca	*Morton & Acuña 12311* (SV).
wrightii Lindl.	Central & Eastern	ca	*Acuña 13484* (SV).
Eurystyles Wawra: 1 sp., 0 endemic			
ananassocomos (Rchb. f.) Schltr.	Eastern	ho	See Taxonomic Literature Consulted.
Homalopetalum Rolfe: 1 sp., 0 endemic			
vomeriforme (Sw.) Fawc. & Rendle	Eastern	ho	*Acuña 10987* (SV).
Ionopsis H.B.K.: 2 spp., 0 endemic			
satyrioides (Sw.) Rchb. f.	Eastern	ho	See Taxonomic Literature Consulted.
utricularioides (Sw.) Lindl.	Western, Central & Eastern	ho	*Acuña 15073, 17581* (SV); *Acuña & Bucher 22980* (SV).
Isochilus R. Br.: 1 sp., 0 endemic			
linearis (Jacq.) R. Br.	Central & Eastern	ca	*Acuña 9775, 13888, 20012* (SV); *Acuña et al. 21105* (SV).
Jacquiniella Schltr.: 2 spp., 0 endemic			
globosa (Jacq.) Schltr.	Central & Eastern	ca	*Acuña 9771, 11284* (SV); *Alain & Acuña 7832* (LS); *Alain et al. 5533* (LS); *Acuña & Zayas 19632* (SV).
teretifolia (Sw.) Schltr.	Central & Eastern	ho	*Roig & Mesa 6613* (NY) [from New York Bot. Gard. database].
Lankesterella Ames: 1 sp., 0 endemic			
alainii Nir	Eastern	ho	See Taxonomic Literature Consulted.
Leochilus Knowls & Wescott: 2 spp., 0 endemic			
labiatus (Sw.) O. Kuntze	Western & Eastern	ho	*Acuña 11276, 11279* (SV).
scriptus (Scheidw.) Rchb. f.	Cuba	ho	See Taxonomic Literature Consulted.
Lepanthes Sw.: 25 spp., 23 endemic			
acunae Hespenh.	Eastern	ho	*Morton & Acuña 375* (US) [from New York Bot. Gard. database].
blepharanta Schltr.	Eastern	ho	*Acuña 10008, 15074* (SV); *Acuña & Morton 12319* (SV); *Roig et al. 9522* (SV).

APPENDIX. Continued.

Taxon (Species and infraspecies in bold are endemic to Cuba.)	Distribution within Cuba	Epiphyte growth habit (ca = casual epiphyte; ho = holoepiphyte; se = semiepiphyte; he = hemiepiphyte)	Voucher specimens/literature reference (Herbarium acronyms follow *Index Herbariorum,* New York Botanical Garden.)
blepharophylla (Griseb.) Hespenh.	Eastern	ho	*Wright 1508* (MO) [from Missouri Bot. Gard. database].
comadresina Luer	Eastern	ho	*Luer et al. 18650* (HAJB) [from Missouri Bot. Gard. database].
cubensis Hespenh.	Eastern	ho	*Acuña 9790* (SV).
chrysostigma Lindl.	Eastern	ho	See Taxonomic Literature Consulted.
diaziae Luer	Eastern	ho	*Luer et al. 19622* (HAJB) [from Missouri Bot. Gard. database].
dorsalis Lindl.	Eastern	ca	See Taxonomic Literature Consulted.
dressleri Hespenh.	Western & Eastern	ho	*Dressler 1341* (US) [from Gray Card Index].
ekmanii Schltr.	Eastern	ho	*Alain et al. 5536* (LS); *Acuña 9521, 9524, 10564, 10565* (SV).
fractiflexa Ames & C. Schweinf.	Eastern	ca	*Acuña 10014, 10563, 10566* (SV).
fulva Lindl.	Eastern	ca	*Acuña 11287* (SV).
grisebachiana Hespenh.	Eastern	?	*Wright 1510* (PH) [from Gray Card Index].
llamachoi Luer	Eastern	ho	*Luer et al. 18651* (HAJB) [from Gray Card Index].
melanocaulon Schltr.	Eastern	ho	*Acuña & Alain 18532* (SV), *3006* (LS); *Alain et al. 5754* (LS)
minima-mundana Luer	Eastern	ho	*Luer et al. 18661* (HAJB) [from Gray Card Index].
obliquiloba Hespenh.	Central	ho	*Dressler 1333* (US) [from Gray Card Index].
obliquipetala Hespenh.	Central	ca	*Acuña 10567* (SV).
palpebralis Luer	Eastern	ho	*Luer et al. 18658* (HAJB) [from Gray Card Index].
pergraclilis Schltr.	Eastern	ho	*Morton & Acuña 12318* (SV).
silvae H. Dietr.	Eastern	ho	See Taxonomic Literature Consulted.
trichodactyla Lindl.	Central & Eastern	ca	*Roig et al. 9523, 13883* (SV); *Alain et al. 5616* (LS).
turquinoensis Schltr.	Eastern	ca	*Acuña 15076* (SV).
woodfredensis Luer	Eastern	ho	*Luer et al. 18623* (HAJB) [from Gray Card Index].
wrightii Rchb. f.	Eastern	ca	See Taxonomic Literature Consulted.
Lepanthopsis Ames: 4 spp., 0 endemic			
anthoctenium (Rchb. f.) Ames	Eastern	ca	See Taxonomic Literature Consulted.
melanantha (Rchb. f.) Ames	Cuba	ca	*Acuña 10004* (SV); *Alain et al. 7430* (LS).
microlepanthes (Griseb.) Ames	Eastern	ho	*Acuña et al. 21106* (SV); *Acuña 10734* (SV).
pygmaea C. Schweinf.	Cuba	ho	See Taxonomic Literature Consulted.
Leucohyle Klotzsch: 1 sp., 0 endemic			
subulata (Sw.) Schltr.	Eastern	ho	See Taxonomic Literature Consulted.
Lycaste Lindl.: 1 sp., 0 endemic			
barringtoniae (J.E. Smith) Lindl.	Eastern	se (climber)	*Alain et al. 5511* (LS); *Alain & Acuña 7731* (LS); *Acuña 10001, 15077* (SV).
Macradenia R. Br.: 1 sp., 0 endemic			
lutescens R. Br.	Western, Central & Eastern	ho	*Acuña 12321, 22984* (SV).

APPENDIX. Continued.

Taxon (Species and infraspecies in bold are endemic to Cuba.)	Distribution within Cuba	Epiphyte growth habit (ca = casual epiphyte; ho = holoepiphyte; se = semiepiphyte; he = hemiepiphyte)	Voucher specimens/literature reference (Herbarium acronyms follow *Index Herbariorum,* New York Botanical Garden.)
Maxillaria Ruiz & Pav.: 7 spp., 0 endemic			
adendrobium (Rchb. f.) Dressler	Eastern	ho	*Alain et al. 5520* (LS); *Acuña 10003* (SV); *Acuña* & *Zayas 19634* (SV).
alba (Hook.) Lindl.	Eastern	ca	*Alain et al. 5713, 7432* (LS); *Morton* & *Acuña 12323* (SV); *Roig et al. 9528, 13885* (SV).
crassifolia (Lindl.) Rchb. f.	Western, Central & Eastern	ho	*Alain et al. 5549* (LS); *Acuña 22987* (SV).
parviflora (Poepp. & Endl.) Garay	Central & Eastern	ho	*Shafer 8565* (NY) [from New York Bot. Gard. database].
purpurea (Spreng.) Ames & Correll	Western, Central & Eastern	ho	See Taxonomic Literature Consulted.
rufescens Lindl.	Eastern	ho	*Alain et al. 5714* (LS); *Morton* & *Acuña 12324* (SV); *Roig et al. 9528* (SV).
valenzuelana (A. Rich.) Garay	Western & Central	ho	*Acuña 22988* (SV).
Nidema Britton & Millsp.: 1 sp., 0 endemic			
ottonis (Rchb. f.) Britt. & Millsp.	Western & Eastern	ca	*Acuña 9783* (LS), *22972* (SV); *Acuña* & *Alain 22971* (SV); *Alain et al. 5744* (LS).
Octomeria R. Br.: 3 spp., 2 endemic			
prostrata H. Stenzel	Eastern	ho	*Alain et al. 5604* (LS).
tridentata Lindl.	Eastern	ca	*León et al. 10304* (NY) [from New York Bot. Gard. database].
ventii H. Dietr.	Eastern	ho	*Dietrich s.n.* (JE) [from Gray Card Index].
Oerstedella Rchb. f.: 1 sp., 0 endemic			
verrucosa (Sw.) Hamer & Garay	Cuba	?	See Taxonomic Literature Consulted.
Oncidium Sw.: 2 spp., 0 endemic			
floridanum Ames	Eastern	ca	*Acuña 20014* (SV).
undulatum Lindl.	Western, Central & Eastern	ca	See Taxonomic Literature Consulted.
Physinga Lindl.: 1 sp., 1 endemic			
polygonata (Lindl.) H. Dietr.	Eastern	ho	*Shafer 8009* (NY) [from New York Bot. Gard. database].
Pinelia Lindl.: 1 sp., 0 endemic			
leochilus (Rchb. f.) Garay & H.R. Sweet	Eastern	ho	See Taxonomic Literature Consulted.
Platystele Schltr.: 1 sp., 0 endemic			
ovalifolia (Focke) Garay & Dunsterv.	Eastern	ho	*Alain* & *Acuña 7904* (LS).
Pleuranthium Benth.: 1 sp., 1 endemic			
scalpelligerum (Rchb. f.) Cogn.	Eastern	ho	*Shafer 8648* (NY) [from New York Bot. Gard. database].
Pleurothallis R. Br.: 36 spp., 18 endemic			
appendiculata Cogn.	Eastern	ho	See Taxonomic Literature Consulted.
aristata Hook.	Eastern	ho	*Acuña 9133* (SV).

APPENDIX. Continued.

Taxon (Species and infraspecies in bold are endemic to Cuba.)	Distribution within Cuba	Epiphyte growth habit (ca = casual epiphyte; ho = holoepiphyte; se = semiepiphyte; he = hemiepiphyte)	Voucher specimens/literature reference (Herbarium acronyms follow *Index Herbariorum,* New York Botanical Garden.)
brighami S. Wats.	Eastern		*Alain 5715, 5735, 5756, 7443* (LS).
caymanensis C.D. Adams	Western	ho	See Taxonomic Literature Consulted.
corniculata (Sw.) Lindl.	Eastern	ca	*Alain et al. 5715, 5735, 5930* (LS); *Acuña 9920* (SV); *Acuña & Alain 18533* (SV); *Morton & Acuña 12326* (SV).
denticulata Cogn.	Eastern	ho	See Taxonomic Literature Consulted.
domingensis Cogn.	Eastern		*Alain et al. 5643* (LS); *Roig & Acuña 9541* (SV); *Morton & Acuña 12329* (SV).
ekmanii Schltr.	Eastern	ho	See Taxonomic Literature Consulted.
excentrica (Luer) Luer	Eastern	ho	*Alain et al. 8115* (LS).
gelida Lindl.	Western, Central & Eastern	ca	*León et al. 9981* (NY) [from New York Bot. Gard. database].
gemina H. Stenzel	Eastern	ho	*Stenzel & Viñales 452* (HAJB) [from Gray Card Index].
grisebachiana Cogn.	Western & Eastern	ca	*Alain et al. 7836, 7837, 7861, 7867* (LS); *Morton & Acuña 12325* (SV).
helenae Fawcett & Rendle	Eastern	ho	*Acuña 9742, 11285* (LS).
longilabris Lindl.	Eastern	ho	*Alain et al. 5360, 5363, 5476* (LS).
llamachoi Luer	Eastern	ho	*Alain 7836* (LS).
mucronata Lindl.	Eastern	ho	See Taxonomic Literature Consulted.
murex Rchb. f.	Eastern	ho	*Acuña 10009* (SV).
nummularia Rchb. f.	Eastern	ho	See Taxonomic Literature Consulted.
obliquipetala Acuña & C. Schweinf.	Eastern	ho	*Acuña 9540* (SV).
obovata Lindl.	Eastern	ca	*Alain et al. 7465* (LS); *Acuña 22944* (SV).
odontopetala Rchb. f.	Eastern	ho	*Acuña 22991* (SV).
papulifolia C.A. Luer	Eastern	ho	*Paufet & Silva s.n.* (HAJB) [from Gray Card Index].
pruinosa Lindl.	Eastern	ho	*Acuña & Casas 17429* (SV); *Alain et al. 5470* (LS).
racemiflora (Sw.) Lindl.	Eastern	ho	*Morton & Acuña 12328* (SV).
quadrifida (Llave & Lex.) Lindl.	Eastern	ho	*Acuña & Zayas 19243* (SV).
rubroviridis Lindl.	Eastern	ho	See Taxonomic Literature Consulted.
ruscifolila (Jacq.) R. Br.	Eastern	ca	*Morton & Acuña 12327* (SV); *Acuña 9791, 10643* (SV).
sertularioides (Sw.) Spreng.	Central & Eastern	ca	*Alain et al. 5932* (LS); *Morton & Acuña 12332* (SV); *Acuña 13900* (SV).
shaferi Ames	Eastern	ho	*Alain et al. 5534* (LS); *Alain & Acuña 7873* (LS); *Acuña 9743* (SV).
testifolia (Sw.) Lindl.	Eastern	ho	*Morton & Acuña 12331* (SV).
tribuloides (Sw.) Lindl.	Western, Central & Eastern	ho	*Alain et al. 5604* (LS); *Acuña 9931, 9789* (SV).
trichophora Lindl.	Eastern	ho	*Acuña et al. 21107* (SV).
trichyphis Rchb. f.	Eastern	ho	*Wright 3345* (MO) [from Missouri Bot. Gard. database].
velaticaulis Rchb. f.	Eastern	ho	*León et al. 10305* (NY) [from New York Bot. Gard. database].
wilsoni Lindl.	Central & Eastern	ca	*Alain et al. 7466* (LS); *Acuña 20016* (SV).
wrightii Rchb. f.	Eastern	ho	See Taxonomic Literature Consulted.

APPENDIX. Continued.

Taxon (Species and infraspecies in bold are endemic to Cuba.)	Distribution within Cuba	Epiphyte growth habit (ca = casual epiphyte; ho = holoepiphyte; se = semiepiphyte; he = hemiepiphyte)	Voucher specimens/literature reference (Herbarium acronyms follow *Index Herbariorum*, New York Botanical Garden.)
Polyrrhiza Pfitzer: 2 spp., 1 endemic			
gracilis Cogn.	Cuba	ho	*Alain et al. 5380* (LS); *Acuña & Zayas 19637* (SV).
lindenii (Lindl.) Cogn.	Eastern	ho	*Acuña s.n.* (SV).
Polystachya Hook.: 2 spp., 1 endemic			
concreta (Jacq.) Garay & H.R. Sweet	Western, Central & Eastern	ho	*Alain et al. 5717* (LS); *Alain & Acuña 2320* (LS); *Morton & Acuña 12334* (SV); *Acuña 12389, 13490* (SV).
foliosa (Hook.) Rchb. f. ex Walp.	Western & Eastern	ca	*Morton & Acuña 12333* (SV); *Alain & Acuña 7261, 7380* (LS); *Alain et al. 7621* (LS); *Acuña 9792* (SV).
Prosthechea Knowles & Westc.: 7 spp., 1 endemic			
boothiana (Lindl.) W.E. Higgins	Western, Central & Eastern	ho	*Hioram 2117* (NY) [from New York Bot. Gard. database].
cochleata (L.) W.E. Higgins [subsp. *triandra* (Ames) Dressler]	Western & Central	ca	*Yero 1150* (SV); *Alain & Acuña 7971* (LS); *Morton & Acuña 12310* (SV); *Acuña 13480* (SV).
fragans (Sw.) Lemée	Eastern	ca	*Alain et al. 5763, 20261* (LS); *Acuña 13043* (SV).
grisebachiana (Cogn.) W.E. Higgins	Western	ho	*Alain & Acuña 1247* (LS); *Acuña & Alain 15796* (SV).
pygmaea (Hook) W.E. Higgins	Central & Eastern	ca	*Alain & Acuña 3015* (SV); *Roig & Acuña 9518* (SV); *Roig et al. 13886* (SV).
serrulata (Sw.) W.E. Higgins	Eastern	ho	*Roig et al. 9536* (SV); *Acuña 10007, 13892* (SV).
vespa (Vell.) W.E. Higgins	Central & Eastern	ho	*Acuña 13894, 15072* (SV); *Roig & Acuña 9511* (SV); *Acuña & Zayas 19627* (SV).
Reichenbachanthus Rodrig.: 1 sp., 0 endemic			
emarginatus (Rchb. f.) Garay	Eastern	ho	*Alain et al. 5529* (LS).
Schomburgkia Lindl.: 1 sp., 0 endemic			
lyonsii Lindl.	Eastern	ho	*Alain et al. 5826* (LS).
Stelis Sw.: 5 spp., 3 endemic			
cristalensis H. Dietr.	Eastern	ho	*Bisse et al. 45254* (HAJB) [from Gray Card Index].
cubensis Schltr.	Eastern	ho	*Acuña 9548* (SV).
ekmanii Schltr.	Eastern	ho	*Alain et al. 5531* (LS).
ophioglossoides (Jacq.) Sw.	Eastern	ca	*Roig et al. 9549* (SV); *Morton & Acuña 12387* (SV); *Alain et al. 7880* (LS).
pygmaea Cogn.	Eastern		See Taxonomic Literature Consulted.
Tetramicra Lindl.: 1 sp., 1 endemic			
malpighiarum J. A. Hern. & M.A. Díaz	Central & Eastern	ho	*Hernández 41199* (HAC) [from Gray Card Index].

APPENDIX. Continued.

Taxon (Species and infraspecies in bold are endemic to Cuba.)	Distribution within Cuba	Epiphyte growth habit (ca = casual epiphyte; ho = holoepiphyte; se = semiepiphyte; he = hemiepiphyte)	Voucher specimens/literature reference (Herbarium acronyms follow *Index Herbariorum,* New York Botanical Garden.)
Tolumnia Raf.: 12 spp., 4 endemic			
acunae (M.A. Díaz) Nir	Eastern	ho	*Bisse et al. 52485* (HAJB) [from Gray Card Index].
calochila (Cogn.) Braem	Central	ho	See Taxonomic Literature Consulted.
intermedia (Bertero ex Spreng.) H. Dietr.	Western, Central & Eastern	ho	See Taxonomic Literature Consulted.
leiboldii (Rchb. f.) Braem	Western, Central & Eastern	ho	*L. Figueiras & Acuña 310* (UO).
lemoniana (Lindl.) Braem	Western, Central & Eastern	ho	*Acuña 18696* (SV).
lucayana (Nash. ex Britt. & Millsp.) Braem	Cuba	ho	See Taxonomic Literature Consulted.
lyrata (Withner) Braem	Western	ho	See Taxonomic Literature Consulted.
moiriana Braem	Eastern	ho	See Taxonomic Literature Consulted.
pulchella Rafin.	Eastern	ho	See Taxonomic Literature Consulted.
sylvestre (Lindl.) Braem	Eastern	ca	*Alain et al. 8048* (LS).
usneoides (Lindl.) Braem	Eastern	ho	*Wright 669* (NY) [from New York Bot. Gard. database].
variegata (Sw.) Braem	Western, Central & Eastern	ho	*León 1285* (NY) [from New York Bot. Gard. database].
x cubensis (Moir) H. Dietr.	Cuba	ho	See Taxonomic Literature Consulted.
Trichopilia Lindl.: 1 sp., 0 endemic			
fragans (Lindl.) Rchb. f.	Eastern	ho	*Acuña 10066* (SV).
Trichosalpinx Luer: 2 spp., 0 endemic			
dura (Lindl.) Luer	Central & Eastern	ho	*Alain et al. 5743* (LS); *Acuña 22992* (SV).
memor (Rchb. f.) Luer	Central	ho	
Vanilla Sw.: 9 spp., 0 endemic			
barbellata Rchb. f.	Cuba	se (climber)	*Alain et al. 5821, 5946* (SV); *Alain et al. 16205* (SV); *Acuña 16455* (SV).
bicolor Lindl.	Central & Eastern	se (climber)	See Taxonomic Literature Consulted.
claviculata Sw.	Eastern	se (climber)	*León & Clement 6458* (NY) [from New York Bot. Gard. database].
dilloniana Correll	Western, Central & Eastern	se (climber)	*Acuña & Alain 17320* (SV).
mexicana Mill.	Western & Central	se (climber)	*Luna 251* (NY) [from New York Bot. Gard. database].
palmarum (Salzman ex Lindl.) Lindl.	Western, Central & Eastern	se (climber)	See Taxonomic Literature Consulted.
phaeantha Rchb. f.	Western & Central	se (climber)	*Alain & Acuña A. 2321* (LS).
planifolia Jacq.	Eastern	se (climber)	*Acuña 16837* (SV).
poitaei Rchb. f.	Central & Eastern	se (climber)	See Taxonomic Literature Consulted.
Xylobium Lindl.: 1 sp., 0 endemic			
palmifolium (Sw.) Benth.	Eastern	ca	*Acuña 10005* (SV); *Acuña et al. 19197* (SV).
Zootrophion Luer: 1 sp., 0 endemic			
atropurpureum (Lindl.) Luer	Eastern	ho	*Alain & Acuña 7556* (LS).

APPENDIX. Continued.

Taxon (Species and infraspecies in bold are endemic to Cuba.)	Distribution within Cuba	Epiphyte growth habit (ca = casual epiphyte; ho = holoepiphyte; se = semiepiphyte; he = hemiepiphyte)	Voucher specimens/literature reference (Herbarium acronyms follow *Index Herbariorum,* New York Botanical Garden.)
PIPERACEAE			
Peperomia Ruiz & Pav.: 16 spp., 2 endemic			
alata Ruiz & Pav.	Western, Central & Eastern	ca	*Acuña 13059* (SV); *León et al. 10275* (LS); *Hioram* & *Maurel s.n.* (SC); *Morton* & *Acuña 1287* (SV).
cubensis C. DC.	Central & Eastern	ca	*León* & *Clemente 6624* (LS); *L. Figueiras 540* (UO); *Ekman 14881* (LS); *Alain* &*Acuña 7536* (LS); *Clemente 5282* (LS).
emarginella (Sw. ex Wikstr.) C. DC.	Eastern	ca	*Hioram s.n.* (SC); *Clemente et al. s.n.* (SC); *Crisógono s.n.* (LS); *Hioram 6551* (LS); *León et al. 10127* (LS).
galioides Kunth	Eastern	ca	*León 11070* (LS); *Acuña 11070* (SV).
glabella (Sw.) A. Dietr. [var. *glabella* & var. *melanostigma* (Miq.) Dahlst.]	Western, Central & Eastern	se (climber)	*Bisse et al. 32093* (HAC); *León 2526* (LS); *Acuña 9803* (SV); *León* & *Pozos 5042* (LS); *León 13293* (LS); *Bisse et al. 32031* (HAC).
grisebachii C. DC.	Eastern	ca	*León 20449* (LS); *Borhidi et al. 39102* (HAC); *Clemente 376, 534, 1933* (LS).
guadaloupensis C. DC.	Central & Eastern	ca	*Wright 504* (G-DC) [from Missouri Bot. Gard. database].
maculosa (L.) Hook.	Central & Eastern	ca	*Clemente 539* (LS); *2020* (SC); *L. Figueiras 819* (LS); *León et al. 10284* (LS); *Alain 6415* LS).
obtusifolia [var. *emarginata* (Ruiz & Pav.) Dahlst. & var. *obtusifolia*]	Western, Central & Eastern	ca	*Alain et al. 5404, 5825* (LS); *Acuña 10031* (SV); *León* & *Clemente 4076* (LS); *Clemente 5284, 5285* (LS); *León 12324* (LS).
quadrangularis (Thomps.) A. Dietr.	Western & Eastern	ca	*Acuña 10363* (SV); *Morton 12293* (SV); *Clemente 5821* (SC); *Hioram 4927* (LS); *Morton* &*Acuña 12288* (SV).
quadrifolia (L.) Kunth	Central & Eastern	ho	*Acuña 1025, 15086* (SV); *León 10858* (LS).
rohmbea Ruiz & Pav.	Central & Eastern	ho	*Clemente et al. 5287* (SC); *Roig* & *Acuña 12926* (SV); *Acuña 10401* (SV); *Alain 6614* (LS); *Jack 6488* (LS).
rotundifolia (L.) Kunth	Western, Central & Eastern	ca	*León 4514* (LS); *León 18330* (LS); *Hioram* & *Maurel s.n.* (SC); *Morton* & *Acuña 12297* (SV).
serpens (Sw.) Loud.	Western, Central & Eastern	ca	*Morton 10459* (LS); *Acuña 23027* (SV); *L. Figueiras 10243* (SV); *Clemente 6438* (SC); *L. Figueiras 541* (LS).
swartziana Miq.	Eastern	ca	*Morton* & *Acuña 3741* (LS), *12060* (SV).
tetraphylla (G. Forster) Hook. & Arn.	Central & Eastern	ca	*Acuña 9563* (SV); *L. Figueiras 2171* (LS).
RUBIACEAE			
Hillia Jacq.: 2 spp., 0 endemic			
parasitica Jack.	Eastern	ho	*Acuña 9886* (SV); *Alvarez et al. 31476* (HAC); *Bisse* & *González 31478* (HAC); *León* & *Seifriz 18397* (LS); *Clemente 1932* (LS).
tetrandra Sw.	Western, Central & Eastern	ca	*Clemente 7144* SC); *Alain 721* (LS); *K. Takeuchi 21391* (SV); *Alain et al. 7876* (LS).
Psychotria L.: 1 sp., 0 endemic			
guadalupensis (DC.) Howard	Eastern	ho	*Acuña 12760* (SV); *Alain 3218* (LS); *Clemente 1935* (LS); *Hioram 2640* (LS); *Catasús* & *Imchan 33320* (HAC).

APPENDIX. Continued.

Taxon (Species and infraspecies in bold are endemic to Cuba.)	Distribution within Cuba	Epiphyte growth habit (ca = casual epiphyte; ho = holoepiphyte; se = semiepiphyte; he = hemiepiphyte)	Voucher specimens/literature reference (Herbarium acronyms follow *Index Herbariorum,* New York Botanical Garden.)
Schradera Vahl: 2 spp., 2 endemic			
cephalophora Griseb.	Eastern	se (climber)	*León et al. 22536* (LS); *León et al. 9929* (LS); *Alain 3807* (LS); *Alain &L. Figueiras 4589* (LS); *Clemente et al. 1884* (SC).
cubensis Steyern	Eastern	ho	*Ferrás 25260* (SV).
URTICACEAE			
Pilea Lindl.: 2 spp., 0 endemic			
nummulariifolia (Sw.) Wedd.	Western, Central & Eastern	se (climber)	*Acevedo et al. 40559* (HAC); *Luna 690* (LS); *León 9755, 15900* (LS); *Alain 6343* (LS).
pubescens Liebm.	Western & Central	ca	*Alain 652* (LS); *Acevedo et al. 40495* (HAC); *O. Cano & P. Herrera 33646* (HAC); *León & Clemente 6541* (LS); *León 12823* (LS).